



Caution

Do not mark on the model and other components with pen nor leave printed materials contacted on surface.

Ink marks on the models cannot be removed.

MW40

Obstetric Training Simulator

-complete set-

Instruction Manual



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The Obstetric Training Simulator –complete set- is a comprehensive training set with the plat form of maternal body for training in skills including cervical examination, delivery assistance and perineal repair.

■ Features

- The maternal body serves as a platform for an array of midwifery skills in delivery stage, including cervical examination, delivery assistance, perineal repair (perineorrhaphy).
- Genital area excels in elasticity, durability and resilience.
- Anatomically correct vaginal canal, ischial spines and pubic joint that facilitate training with anatomical understanding through direct observation, as well as palpation.
- True-to-life training experience in delivery assistance including perineal protection, delivery of fetus and placenta.
- 5 stages of cervical dilation can be set for palpation by interchangeable modules.

■ Training Skills

《Delivery Assistance》

- Delivery assistance for different delivery positions (dorsal, all-fours)
- Perineal protection, anal sphincter protection
- Delivery of fetus (forceps delivery, vacuum extraction)
- Clamping, tying and cutting of the umbilical cord
- Delivery of placenta
- Inspection of velamen
- Procedure of urinary catheterization

《Cervical Examination》

- Cervical Examination
 - Determination of bishop score (cervix score) using landmarks of the ischial spines and the pubic symphysis
 - Assessment of cervical dilation
 - Procedures of urine catheterization
 - Procedures cervical cytology
- Speculum examination

《Perineal Repair》

- Perineorrhaphy
 - Single interrupted suture
 - Vertical mattress suture

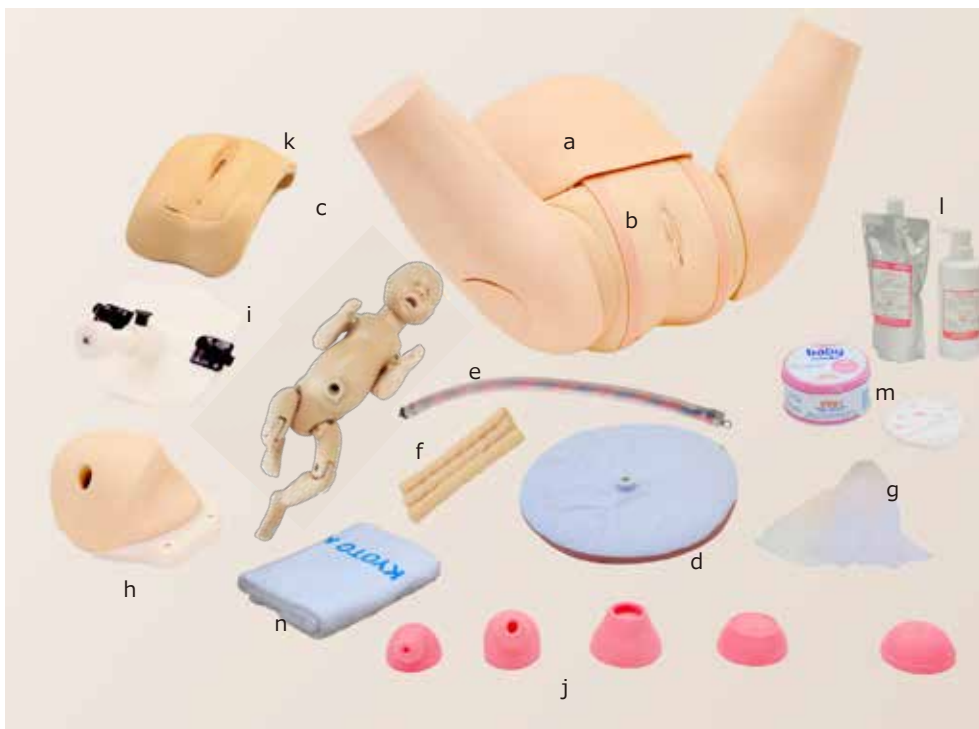
Read before use

This Obstetric Training Simulator has been developed for the training of medical and paramedical professionals only. Any other use, or any use not in accordance with the enclosed instructions, is strongly discouraged. The manufacturer cannot be held responsible for any accident or damage resulting from such use. Please use this model carefully and refrain from subjecting to any unnecessary stress or wear. Should you have any questions on this simulator, please feel free to contact our distributor in your area or KYOTO KAGAKU at any time. (Our contact address is on the back cover of this manual)

※ Be sure to refer the handling and storage instructions on page 3 and always follow them.

Set Includes

Before you start, ensure that you have all components listed below.



Thighs are not attached to the body at the time of receipt.

a. Pregnancy torso	1	d. Placenta	1	h. Vagina unit	1	l. Lubricant	1
b. Genitalia unit (for pelvic examination and delivery assistance)	1	e. Umbilical cord	1	i. Holder of cervical dilation module	1	m. Talcum powder	1
c. Fetus	1	f. Umbilical cords for omphalotomy	3	j. Cervical dilation module	5	n. Towelket	1
		g. Velamen sheet	5	k. Genitalia unit (for perineorrhaphy)	1	o. Vat	1
						p. Fitting parts for thighs	1
						Instruction Manual	



DO' s and DON' Ts

● Handle the manikin and the components with care.

Be sure not to drop or add shock to the manikin and its components, since the product uses special resins and heavy, such shock may cause damage to the products or environment.

● Storage in a dark, cool and dry space will help prevent the skin colors from fading and product from deforming.

● The manikin skin may be cleaned with a wet cloth if necessary, using mildly soapy water or diluted detergent.

● Do not let ink from pens, newspapers, this manual or other sources contact with the manikin, as they cannot be cleaned off the manikin skin.

● Never use organic solvent like paint thinner to clean the skin, as this will damage the simulator.

● Even if color on its surface might be changed across the ages, this does not affect the quality of its performance.

PLEASE READ :

Always follow the handling and storage instruction below, to keep the material with its elasticity and durability.

AFTER USE:

- Apply talcum powder on the parts below, cover them with included non-woven bag and store them in the storage box.



- **Do not let the parts contact with other resin items and printed materials.**

These soft material of the parts may be deformed by contact with other resin items and marked by contact with printed material and they cannot be repaired.

- **Maintain proper temperature, humidity and avoid direct sunlight of the storage room of simulators.**

Be sure to monitor the indication sticker on the storage box of the product.

Store the simulator below 60 degrees C.

Change the storage place immediately when the temperature indicator shows color circles as below.

*The color circles are irreversible.

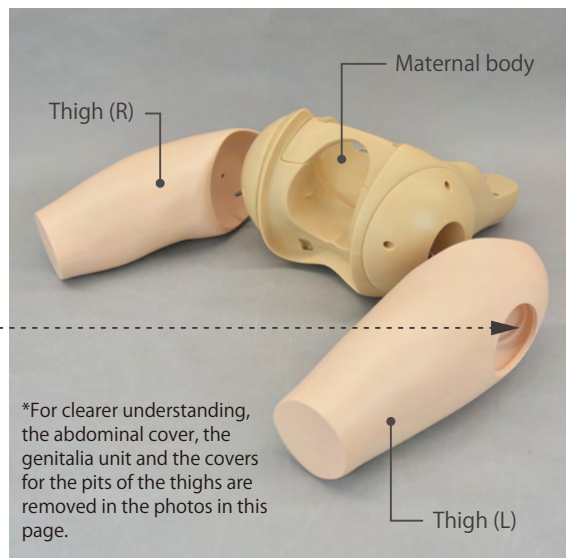
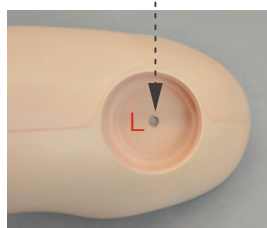
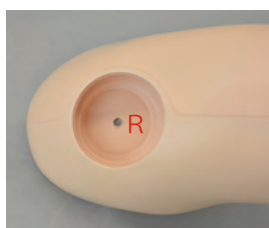
Before			After		
3F60	年	月貼付	3F60	年	月貼付
60	65	70	60	65	70

Assembly of Thighs

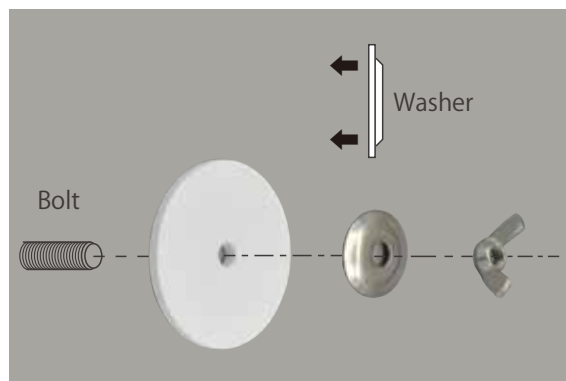
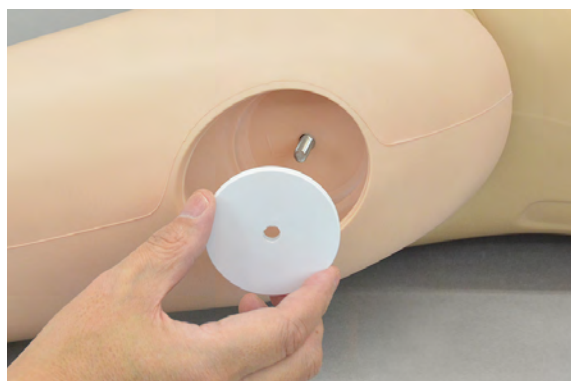
1. Before the first use, thighs need to be attached to the maternal body.
Ensure that you have all necessary components below and identify left /right mark engraved in the round pit of each thigh.



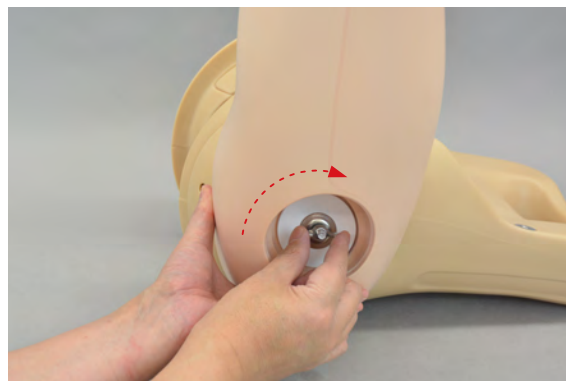
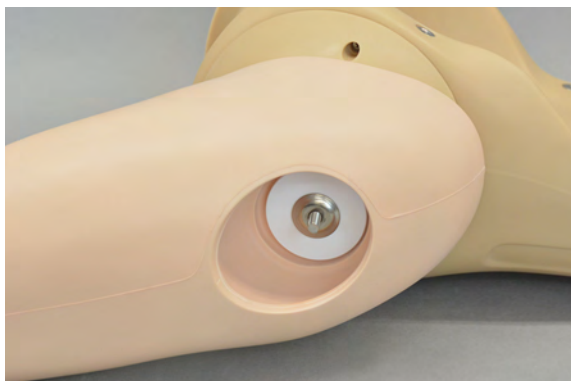
Fitting parts for thighs



2. Put the bolt at the left/right hip joint area of the maternal body through the opening of the respective thigh. Then put the plate and the washer in this order and fix them together with the fly nut over the washer.



*Take not that the flat side of the washer faces the plate.

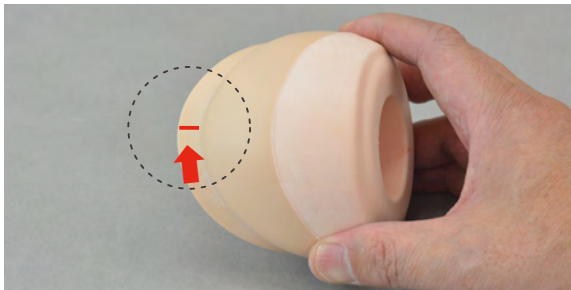


*Lift the thigh facilitates fastening the nut tightly.
*Be careful not to overtighten the nuts.

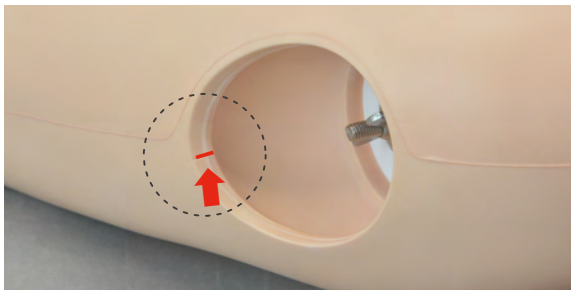
Assembly of Thighs

3. Attach the covers for the pits of the thighs.

Orient the cover fitting the match-mark lines “—” on the walls of the covers and the pit.



Match-mark line on the wall of the cover.



Match-mark line on the wall of the pit.



*The covers are common for left and right.

*Spreading included talcum powder facilitate inserting the covers.

4. Assemble both legs with the same process to complete the assembly.



Setting up the Fetus

1. Setting up the Fetus

Prepare the fetus, placenta, umbilical cord, umbilical cords for omphalotomy, velamen sheet, vat and lubricant.



2. Take out the placenta from the storage bag to attach umbilical cord. Connect the screw side of umbilical cord to the placenta and turn it clockwise to fix.



3. Insert the umbilical cord into the hole located at the center of the velamen sheet.



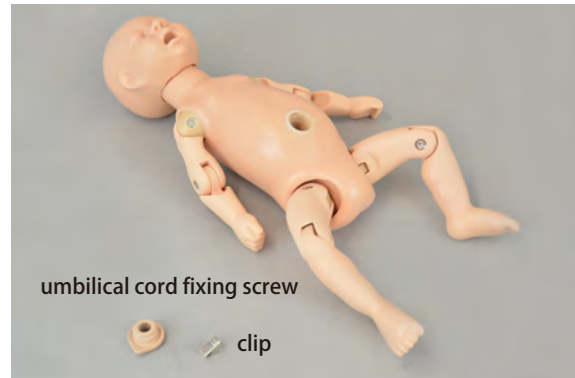
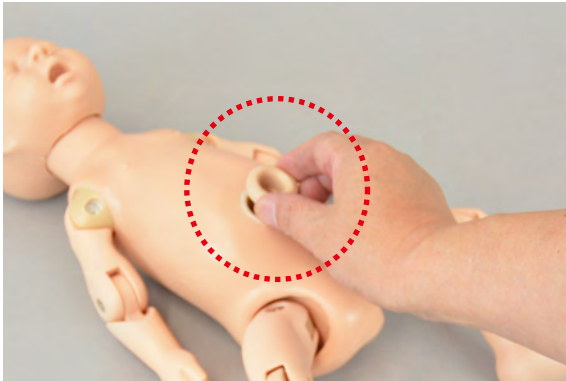
4. Take out the umbilical cord for omphalotomy from the storage bag. Reverse the tip of it to show the hook, and engage it to the hook at the umbilical cord from the placenta.



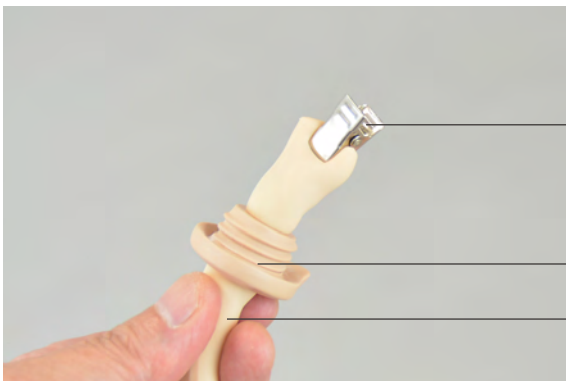
Attach the umbilical cord

5. Loosen the screw in the abdomen of the fetus and take out the clip inside.

※If the clip is difficult to take out, hold the fetus abdomen downwards and the clip will fall out.



6. Thread the umbilical cord through fixing screw, then clip the tip.



clip

umbilical cord fixing screw

umbilical cord for omphalotomy

7. Insert the clip back to the abdomen of the fetus and tighten the screw.



8. The fetus is ready.



※When tightening, if the clip hits the fixing screw, it cannot be tightened completely.

※Adjust the clip direction to avoid hitting fixing screw.

Lubrication

Before training, apply lubricant to the genitalia unit, placenta, and umbilical cords for omphalotomy completely.

1. Put the assembled fetus in the vat included in the set. Apply lubricant to it entirely including the velamen sheet and the placenta.



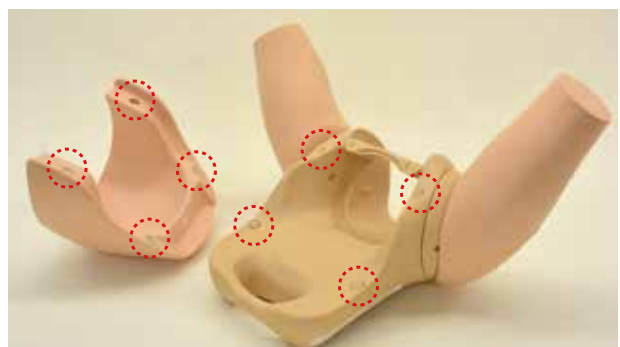
2. Apply lubricant to the internal surface of the genitalia unit, too.

※The genitalia unit can be lubricated after attaching to the maternal body.



Assembly of the Maternal Body

1. Remove the abdominal cover from the body. The abdominal cover and body are attached with four magnets. The abdominal cover can be removed by lifting.

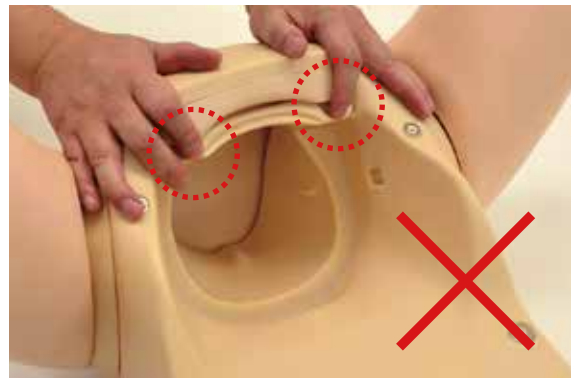


Assembly of the Maternal Body

2. Attach two nails of genitalia unit to two pits located under part of maternal body, and push on the top of the unit to fix.



* Be careful not to pinch your finger between the maternal body and the genitalia unit.



3. Put back the abdominal cover to the maternal body, and set the fetus in it to complete set-up.

* Always put the placenta on the vat during the training.



Birth Positions, Key Features

Training can be conducted in two birth positions: dorsal and all-fours position.



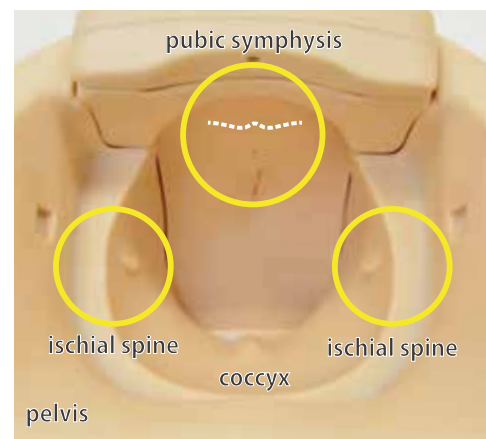
Dorsal position



All-fours position

《Key Features》

- Direct observation of the motion of fetus in delivery to understand the spatial relationship between pelvis and fetus.
- Genitalia unit has excellent elasticity and resilience and birth canal is optimal size for the fetus, which allows to deliver the fetus by a little pushing force holding the handle lightly.
- Pelvis has pubic symphysis and ischial spines, which facilitates understanding of the spatial relationship between pelvis and fetus.



Station zero, the line that connect ischial spines can be recognized.

Training skills

○ Perineal protection



○ Delivery assistance



○ Delivery of fetus



○ Clamping, tying and cutting of umbilical cord



○ Delivery of placenta



○ Inspection of velamen and placenta



After Training

○ Remove the genitalia unit

1. Lift the abdominal cover to remove it from the maternal body.



2. Pull back the top of the genitalia unit frame to remove from the body.



○ Disassembling the fetus

1. Disengage the umbilical cord and placenta in reverse order of set-up. (See P.4-P.5)

○ Cleaning and storage

1. Wipe the lubricant left on the fetus, umbilical cord, placenta and genitalia unit away with wet paper tissue. If necessary, wash them by tap water, and dry them well naturally. After completely dried the components, apply talcum powder to each of them.



2. Genitalia unit, placenta and umbilical cord for omphalotomy are made of special soft resin. It is required to store them either in the storage bag or on the vat after training.

※If these parts are stored touching with other resin products or printed matter, the dent or ink might be left on the skin, and will become irremovable.



Installation of cervical dilation module to the holder

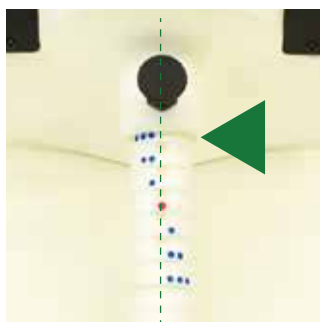
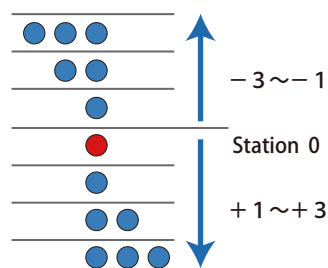
1. Attach the cervical dilation module to the holder. Match the red point of holder with slit of cervical dilation module



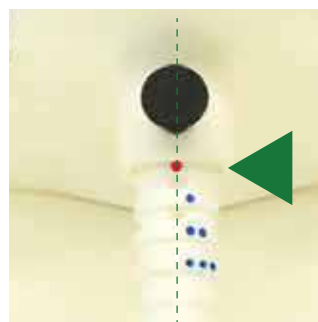
※Note: The cervical dilation module is to be mounted on the tip (smaller tip) of the stick, which is opposite to the handle.

2. The lever on the holder becomes movable by pulling the black knob on the holder. Descent of the fetal head can be set by moving the lever back and forth.

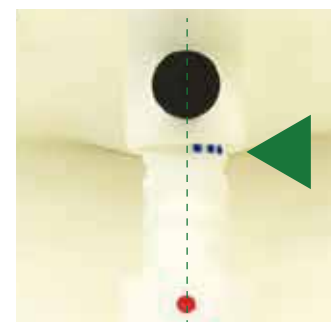
※Descent of fetal head is settable in seven phases.



Station -3



Station 0

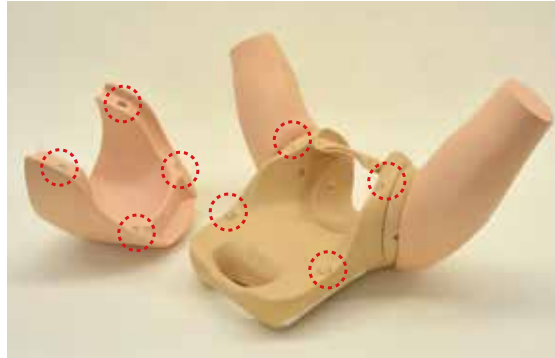


Station +3

Assembly of the maternal body

1. Remove the abdominal cover from the body

The abdominal cover and body are attached with four magnets. The abdominal cover can remove it by pulling.



2. Insert two projections of the genitalia unit in the holes of the maternal body. And push the upper part of the genitalia unit into the maternal body.



Note: Be careful not to pinch the finger between genitalia unit and maternal body.



Assembly of the maternal body

3. Attach the cervix unit to the maternal body noting its orientation.
Attach the abdominal cover to the maternal body by matching the magnet positions.



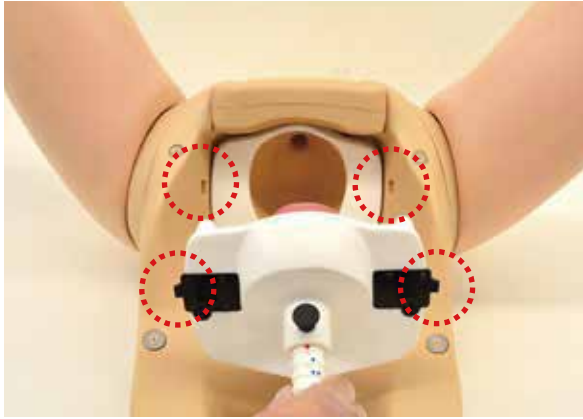
Lubrication

1. Apply the lubricant to the inside of the cervix unit, genitalia and cervical dilation module.



Installation of cervical dilation module to the maternal body

1. Attach the holder to the maternal body



Set the holder with the cervical dilation module to the maternal body.

※Note: Engage the edges on the holder and the holes on the maternal body, and push the holder until clicking sound is heard.



2. Attach the abdominal cover to the maternal body by matching the magnet positions.



Training / Features

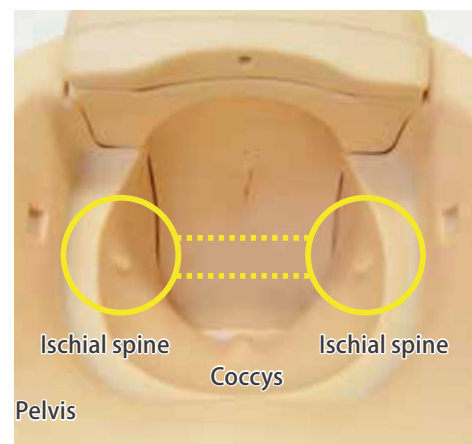
For the training for pelvic examination, put on gloves and apply lubricant to fingers.

Cervical dilation module has 5 variations



《Features》

- Station zero, the line that ischial spines can be recognized.
- To determine the fetal position is possible by posterior fontanelle.



○ Change of cervical dilation module

Unlock the holder with pulling the black knob on right and left of holder, then remove the holder from the maternal body. Change the cervical dilation modules and set the holder again.



After Training



○ Disassembly of the model

1. Remove the abdominal cover from the maternal body.

2. Unlock the holder with pulling the black knob on right and left of holder, then remove the holder from the maternal body.

Wipe off the lubricant which attached to cervical dilation module with wet wipes.



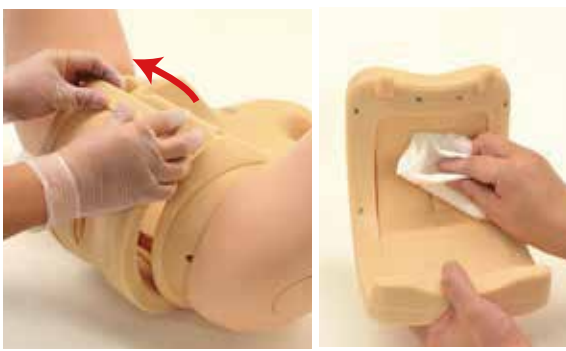
3. Pull out the cervix unit in front with holding white frame on the cervix unit.

Wipe off the lubricant with wet wipes.



4. Cervix unit is removed from the maternal body with pulling the upper part of frame in front.

Wipe off the lubricant with wet wipes.



※Also, these units are washable with water. Apply the talcum powder after having been dried enough.

The cervix unit and the genitalia unit are made from special soft resin.

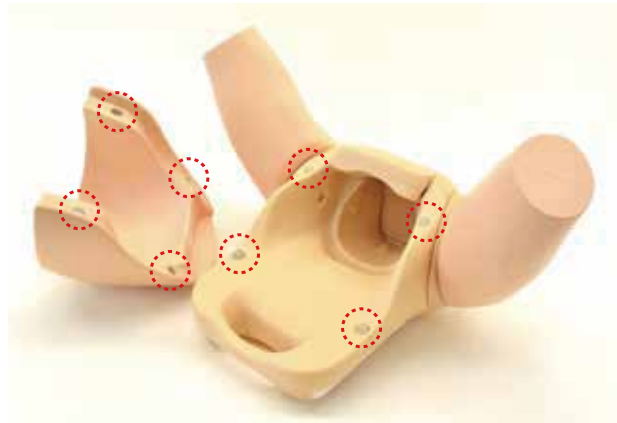
For storage, cover them with included non-woven bag and keep them in the storage box.

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Change of genitalia units

1. Lift the abdominal cover to remove it from the maternal body.



2. Pull back the top of the genitalia unit frame to remove from the body.



○ Change to the genitalia unit for perineorrhaphy



Genitalia unit for pelvic examination and delivery assistance



Genitalia unit for perineorrhaphy

Change of genitalia units

3. Insert two projections of the genitalia unit in the holes of the maternal body.
And push the upper part of the genitalia unit into the maternal body.



Note: Be careful not to pinch the finger between genitalia unit and maternal body.



4. Attach the abdominal cover.



Perineorrhaphy

Repeated training in repairing the first-degree perineal tear.
Single interrupted suture and vertical mattress suture are possible.



After Training

1. Remove the sutures for next training
2. When necessary change or replace the genitalia units following the instruction on page 17-18.



Caution

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Replacement
parts

Code	Name	Code	Name
11415-030	1 genitalia unit (for pelvic examination and delivery assistance)	11416-030	10 umbilical cords for omphalotomy
11417-020	1 genitalia unit (for perineorrhaphy)	11416-040	5 velamen sheets
11458-030	1 fetus	11415-010	1 set of cervical dilation module
11416-020	1 placenta	11415-040	1 lubricant (500ml) refill bag
		11415-050	1 lubricant (500ml) refill bag and bottle



genitalia unit
(for pelvic examination
and delivery assistance)



genitalia unit
(for perineorrhaphy)



fetus



placenta



lubricant (500ml) refill bag and bottle



10 umbilical cords
for omphalotomy



5 velamen sheets



1 set of cervical dilation module

For inquiries and service, please contact your distributor or KYOTO KAGAKU CO., LTD.

The contents of the instruction manual are subject to change without prior notice.

No part of this instruction manual may be reproduced or transmitted in any form without permission from the manufacturer.

Please contact manufacturer for extra copies of this manual which may contain important updates and revisions.

Please contact manufacturer with any discrepancies in this manual or product feedback. Your cooperation is greatly appreciated.

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